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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/780,811	02/18/2004	Ralph F. Altman	02331-PA	1500	
7590 11/04/2005			EXAM	EXAMINER	
ARMSTRONG, KRATZ, QUINTOS,			CHIESA, RI	CHIESA, RICHARD L	
HANSON & BROOKS, LLP			ART UNIT	PAPER NUMBER	
Suite 220				TALERIVOIMBER	
502 Washington Avenue			1724	1724	
Towson, MD 21204			DATE MAILED: 11/04/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/780,811	ALTMAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Richard L. Chiesa	1724					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	_•						
2a) This action is FINAL . 2b) This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-22 are subject to restriction and/or election requirement.							
Application Papers							
 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 18 February 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:)-152)				

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DETAILED ACTION

Drawings

1. The drawings filed on February 18, 2004 are accepted by the examiner.

Restriction

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-13, drawn to an electrostatic precipitator optimization process, classified in class 95, subclass 7.
 - II. Claims 14-19, drawn to an electrostatic precipitator, classified in class 96, subclass 24.
 - III. Claim 20, drawn to a coal-fired utility plant, classified in class 55, subclass 385.1.
 - IV. Claims 21 and 22, drawn to an electrostatic precipitator operation method, classified in class 95, subclass 81.
- 3. The inventions are distinct, each from the other because of the following reasons:
- A. Inventions I and II are respectively related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the invention I process can be practiced by another materially different apparatus such as one without a discharge electrode or a high voltage power source. Furthermore, the invention II

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apparatus can be used to practice another and materially different process such as one which does not determine optimum amounts of time of electrical energy application based upon greatest peak and average voltage magnitude applied.

- B. Inventions IV and III are respectively related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the invention IV process can be practiced by another materially different apparatus such as one without a coal-fired utility plant. Furthermore, the invention III apparatus can be used to practice another and materially different process such as one which does not select initial on and off times or maximize scaler product.
- C. Inventions III and II are respectively related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the invention III utility plant does not require a high voltage power source, a discharge electrode, or a collector. The invention II electrostatic precipitator has separate utility such as in a manufacturing plant instead of a coal-fired utility plant.
- D. Inventions IV and I are respectively related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that

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the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the

instant case, the combination as claimed does not require the particulars of the subcombination

as claimed because the invention IV electrostatic precipitator operation method does not require

collecting precipitate on a collector or using a high frequency direct current power supply. The

invention I electrostatic precipitator optimization process has separate utility such as in a process

which does not modulate DC power supply pulse width or maximize scaler product.

4. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art because of their different classification and recognized divergent subject

matter, restriction for examination purposes as indicated is proper.

5. Applicants are advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

6. Applicants are reminded that upon the cancellation of claims to a non-elected invention,

the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

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Conclusion

7. Action on the merits of the claims is held in abeyance pending applicants' response. It is noted, however, that the comma at the end of claim 22 should apparently be changed to a period.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard L. Chiesa whose telephone number is (571) 272-1154.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane S. Smith, can be reached at (571) 272-1166.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1700 receptionist whose telephone number is (571) 272-1700.

Facsimile correspondence must be transmitted through (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard L. Chiesa November 1, 2005

Richard L. Chiesa RICHARD L. CHIESA PRIMARY EXAMINER ART UNIT 1724

Nov. 1, 2005